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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Selifonov et al.

Attorney Docket No.:
MXGNP001X3/124.610

Application No.: 09/618,579

Examiner: Zhou, Shubo

Filed: July 18, 2000

Group: 1631

Title: METHODS FOR MAKING CHARACTER
STRINGS, POLYNUCLEOTIDES AND
POLYPEPTIDES HAVING DESIRED
CHARACTERISTICS

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on January 27, 2005 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

Signed: _____

Joyce L. Ferreira
Joyce L. Ferreira

**INFORMATION DISCLOSURE STATEMENT
BEFORE FINAL ACTION OR NOTICE OF ALLOWANCE
(37 CFR §§ 1.56 AND 1.97(c))**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

02/02/2005 SDENB0B1 00000110 09618579

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Dear Sir:

The references listed in the attached PTO Form 1449, a copy of which is attached, may be material to examination of the above-identified patent application. Applicants submit this reference in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make this citation of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that this reference indeed constitutes prior art.

This Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits, or after three months of the filing date of this application, whichever

event occurred last, but it is believed before the mailing date of either: (i) a final action under §1.113 or (ii) a notice of allowance under §1.311, whichever occurs first.

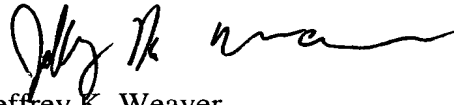
Accompanying this Information Disclosure Statement is

- ☐ a statement as specified in 37 CFR 1.97(e); or
- ☒ the fee set forth in 37 CFR 1.17(p).

If fees are due, enclosed is our Check No. 10180 for \$180.00 in payment of the Information Disclosure Statement Fee. If it is determined that any additional fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. MXGNP001X3).

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP



Jeffrey K. Weaver
Registration No. 31,314

P.O. Box 70250
Oakland, CA 94612-0250



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Information Disclosure Statement By Applicant	Applicant: Selifonov et al.	
(Use Several Sheets if Necessary)	Filing Date July 18, 2000	Group 1643

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A1	5,223,409	6/93	Ladner et al.			
	A2	5,198,346	3/93	Ladner et al.			
	A3	6,107,073	8/00	Chen			
	A4	5,741,691	4/21/98	Arnold et al.			
	A5	6,518,065	2/11/03	Stemmer			
	A6	6,365,408	4/2/02	Stemmer			
	A7	6,323,030	11/27/01	Stemmer			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
/	B1	WO03/055978	10/7/03	WIPO			X	

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
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✓	C2	Robert F. Service, "Tapping DNA for Structures Produces a Trickle," News Focus, Science, Vol. 298, Pages 948-950, 2002
✓	C3	Accelrys Website, GCG Wisconsin Package, 15 Pages, 2002
✓	C4	Lewis Ricki, The Scientist, Pages 1-4, 1993
✓	C5	Chen et al., "Tuning the Activity of an Enzyme for Unusual Environments: Sequential Random Mutagenesis of Subtilisin E for Catalysis in Dimethylformamide," Proc. Natl. Acad. Sci. USA, Vol. 90, Pages 5618-5622, 1993
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/	C16	Dunbrack & Karplus, M., "Backbone-Dependent Rotamer Library for Proteins Application to Sidechain Prediction," <i>J. Mol. Biol.</i> 1993, 230:543-574
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Form 1449 (Modified)

Information Disclosure
Statement By Applicant

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✓	C24	Geladi et al., "Partial Least Squares Regression: A Tutorial," <i>Anal Chim Acta</i> , 168: 1-17, 1986
✓	C25	Holowachuk et al., "Efficient Gene Synthesis by Klenow Assembly/Extension-Pfu Polymerase Amplification (KAPPA) of Overlapping Oligonucleotides," <i>PCR Methods Appl</i> , 4:299-302, 1995
✓	C26	Aita et al., "Theory of Evolutionary Molecular Engineering Through Simultaneous Accumulation of Advantageous Mutations," <i>J. Theor. Biol.</i> , 207:543-556, 2000
✓	C27	Jain et al., "The Crystal Structure of an Autoprocessed Ser221 Cys-subtilisin E-propeptide Complex at 2.0 Å Resolution," <i>Mol. Biol.</i> 1998, 284:137-144
✓	C28	Joo et al., "Laboratory Evolution of Peroxide-Mediated Cytochrome P450 Hydroxylation," <i>Nature</i> 1999, 399:670-672
✓	C29	Kay, "NMR Methods for the Study of Protein Structure and Dynamics," <i>Biochem. Cell Biol.</i> , 1997, 75:1-15 (1997)
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	C59	Roger Sheldon, "Picking a Winner", <i>Nature</i> , vol. 399, June 17, 1999, pp. 636-637
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✓	C41	Moore & Arnold, "Directed Evolution of a Para-nitrobenzyl esterase for aqueous-organic Solvents," <i>Nature Biotechnology</i> , 1996, 14(4):458
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✓	C44	Fontana & Shuster, "Continuity in Evolution: On the Nature of Transitions," <i>Science</i> 1998, 280:1451-1455
✓	C45	Sasai, "Conformation, Energy, and Folding Ability of Selected Amino Acid Sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 1995, 92: 8438-8442
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